

02/20/14 Agenda:





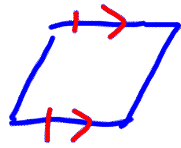
- Remediation packet is on my web site. If you are planning on retaking the Chapter 7 test, I need it by 2/25 (next Tuesday)
- Review Homework
 - Worksheet 4 - Proving Parallelograms
- Review Sections 8.1 - 8.3
 - Section 8.1 - Sum of Interior & Exterior Angles
 - Section 8.2 - Properties of Parallelograms
 - Section 8.3 - Proving a Quadrilateral is a Parallelogram
- Homework
 - Worksheet 6 - Review 8.1 - 8.3

NOTE: Quiz is Friday (tomorrow)!

Warm Up - Homework Out!

Grab a sheet of paper & put your name on it.

List the 5 ways to prove a Quadrilateral is a Parallelogram:

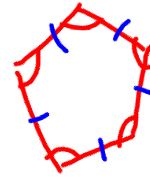
1. BOTH PAIRS OF OPPOSITE SIDES \parallel 
2. BOTH PAIRS OF OPPOSITE SIDES \cong 
3. BOTH PAIRS OF OPPOSITE ANGLES \cong 
4. DIAGONALS BISECT EACH OTHER 
5. ONE PAIR OF OPPOSITE SIDES
ARE BOTH
 \parallel AND \cong 

Review - Sections 8.1 - 8.3

Targets 8A, 8B, 8C, & 8D

February 20, 2014

Section 8.1 - Find Angle Measures



$$\text{Sum of Interior Angles} = \underline{(n-2) \cdot 180^\circ} \quad n = \# \text{ of sides}$$

$$\text{Measure of 1 Interior Angle of Regular Polygon} = \frac{\text{Sum of Interior Angles}}{\# \text{ of sides}}$$

$$\text{Sum of Exterior Angles} = 360^\circ$$

$$\text{Measure of 1 Exterior Angle of Regular Polygon} = \frac{360^\circ}{\# \text{ of sides}}$$

Find the sum of interior angles, the measure of 1 interior, the sum of exterior angles, and the measure of 1 exterior angles of a regular 24-gon.

SUM INTERIOR	3960°	$(n-2) \cdot 180$	$22 \cdot 180$
1 INTERIOR	165°	$\frac{3960}{24} = 165^\circ$	
SUM EXTERIOR	360°	$\frac{360^\circ}{24} = 15^\circ$	
1 EXTERIOR	15°		

The sum of interior angles of a polygon is 1980° . How many sides does it have?

$$\frac{(n-2) \cdot 180}{180} = \frac{1980}{180}$$

$$\begin{array}{r} n-2 = 11 \\ +2 \quad +2 \\ \hline n = 13 \end{array}$$

An exterior angle of a regular polygon measures 5° . How many sides does it have?

$$\frac{360^\circ}{5^\circ} = 72$$

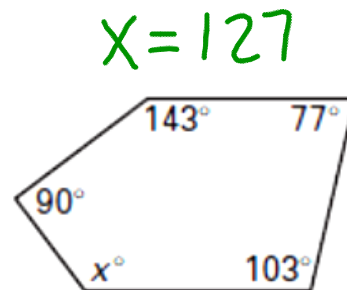
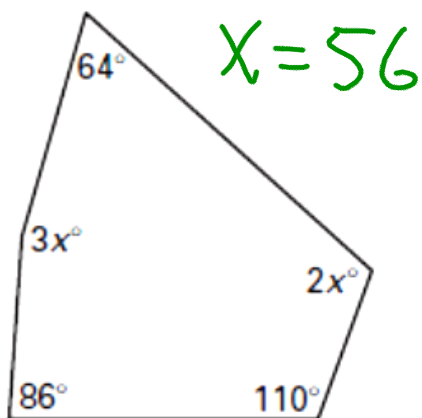
$$\frac{360^\circ}{5^\circ} = 72$$

Section 8.1 - Polygon Names & Interior Angle Measures

Target 8A

February 13, 2014

You try: Find the sum of the interior angles, then find the missing angle.



Review - Sections 8.1 - 8.3

Targets 8A, 8B, 8C, & 8D

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Section 8.2 - Properties of Parallelograms

Parallelogram:

Quadrilateral with BOTH pairs of opposite sides parallel.

- Opposite sides are congruent.
- Opposite angles are congruent.
- Consecutive angles are supplementary.
- The diagonals bisect each other.



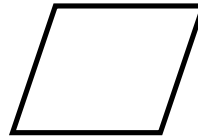
Review - Sections 8.1 - 8.3

Targets 8A, 8B, 8C, & 8D

February 20, 2014

Section 8.3 - Proving a Quadrilateral is a Parallelogram

Proving it's a Parallelogram:



Show:

- Both pairs of opposite sides parallel.
- Both pairs of opposite sides are congruent.
- Both pairs of opposite angles are congruent.
- ONE pair of opposite sides are both congruent and parallel
- The diagonals bisect each other.